

Figure 1: Waveform of a conventional heart beat

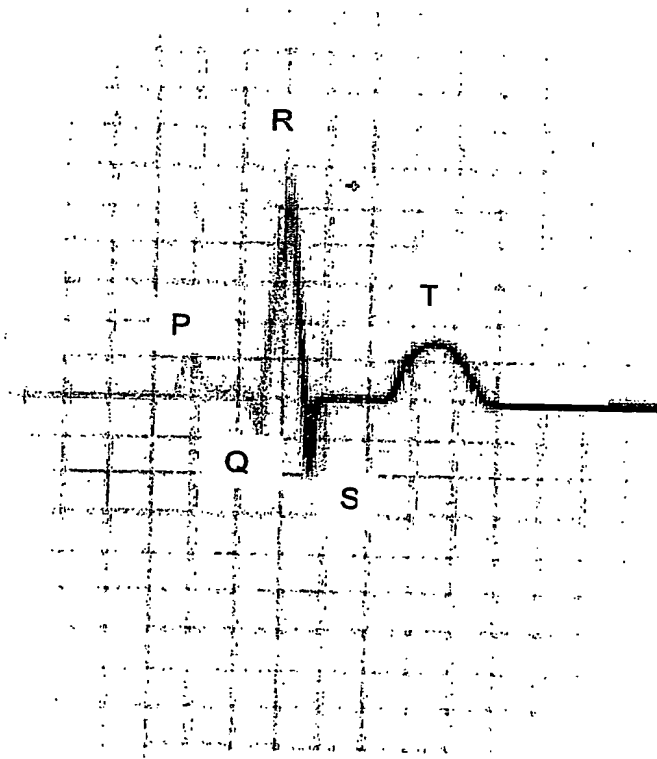
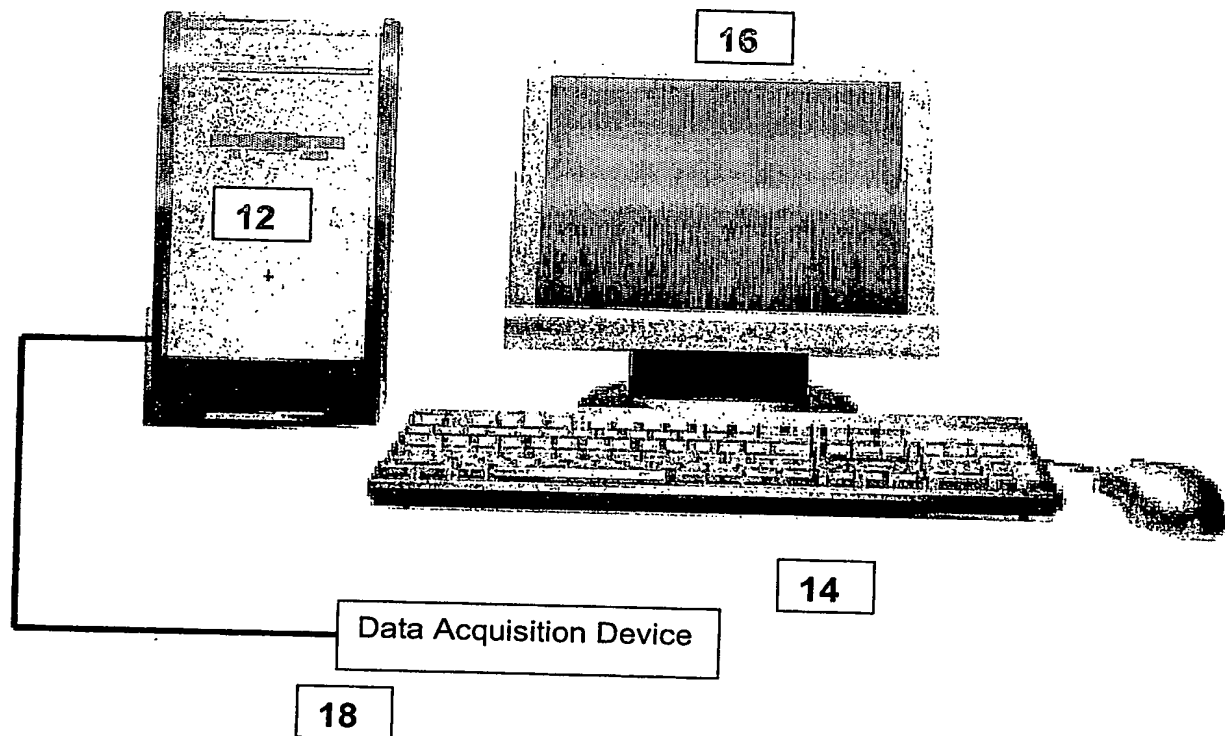


Figure 2: An example of computer and data acquisition device used for the present invention.



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Figure 3: a picture showing the invention with the screenshot from the system performing HRC analysis on pre-acquired representation data from a healthy human.

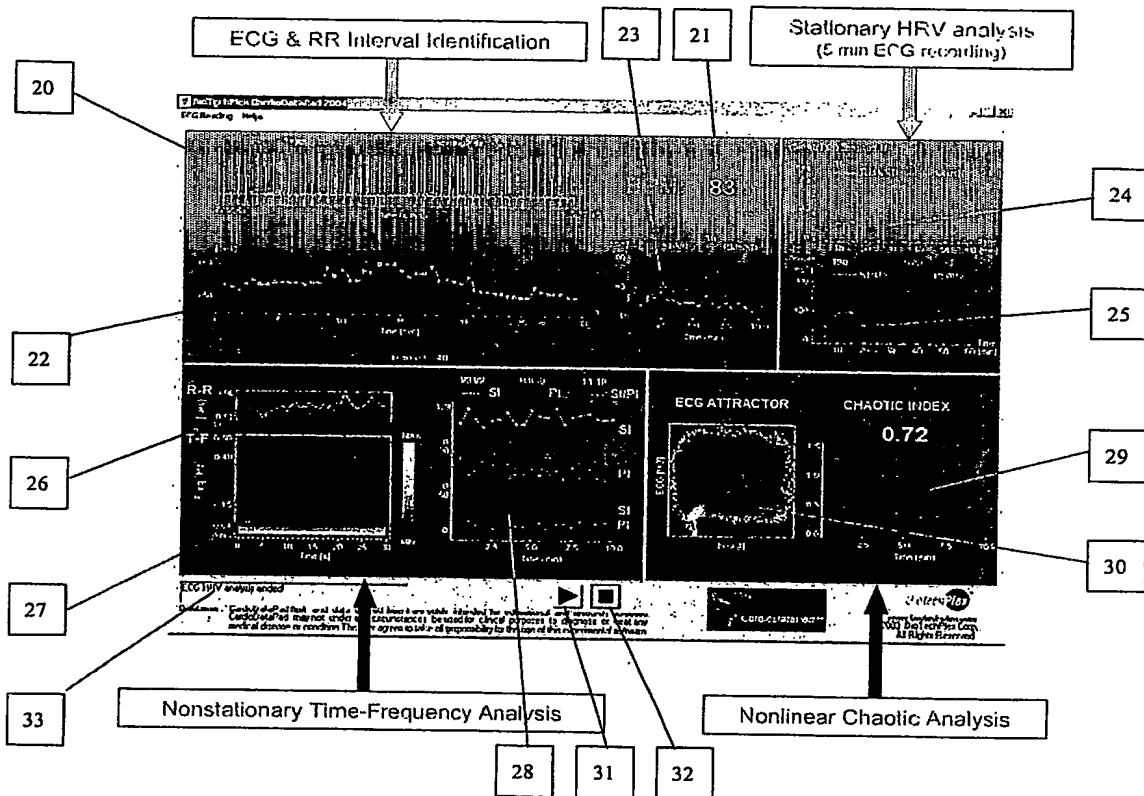


Fig 4: HRV / PRV Real-time Analysis System

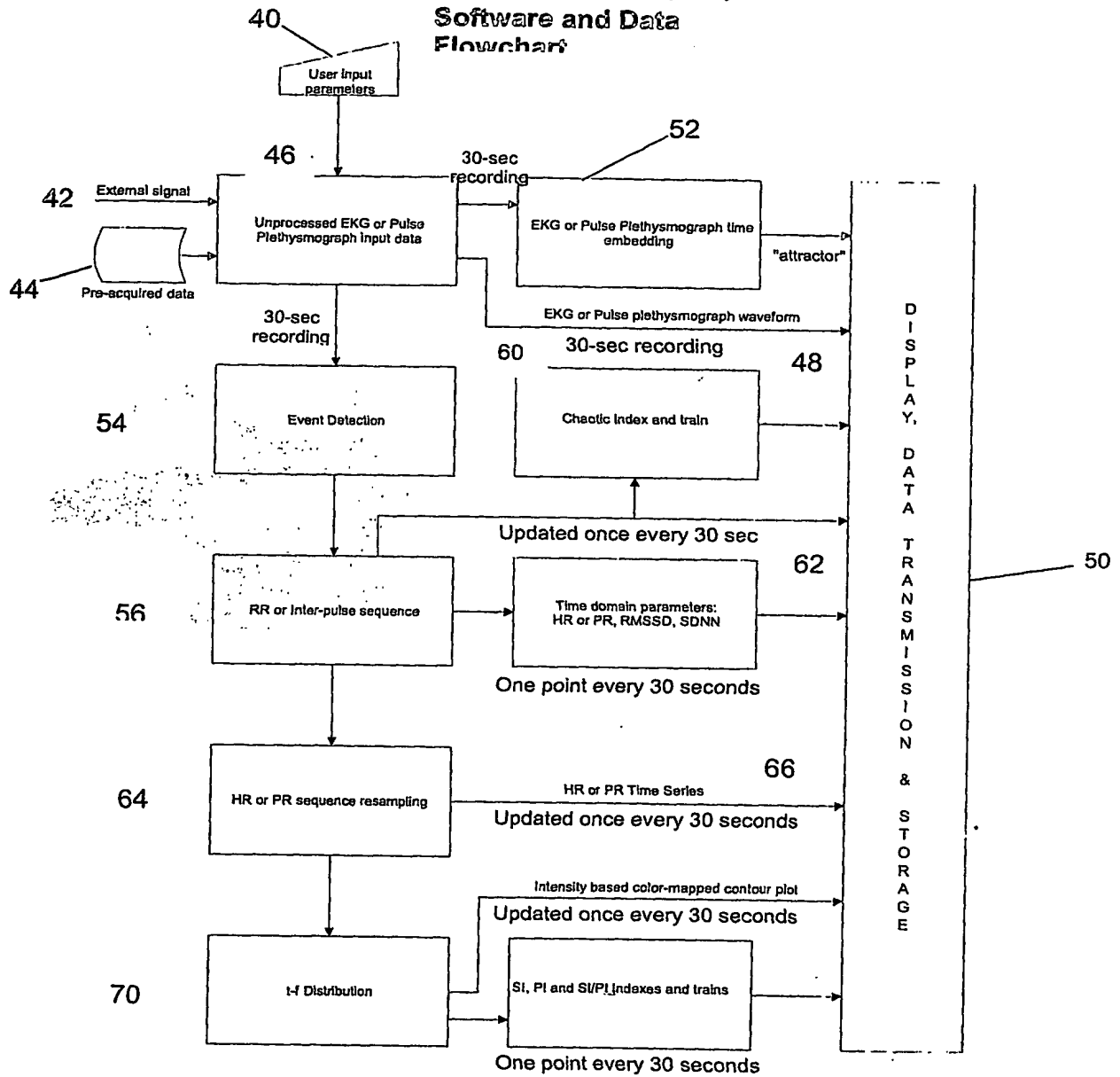
Software and Data
Flowchart

Fig 5
USER INPUT AND ECG ACQUISITION

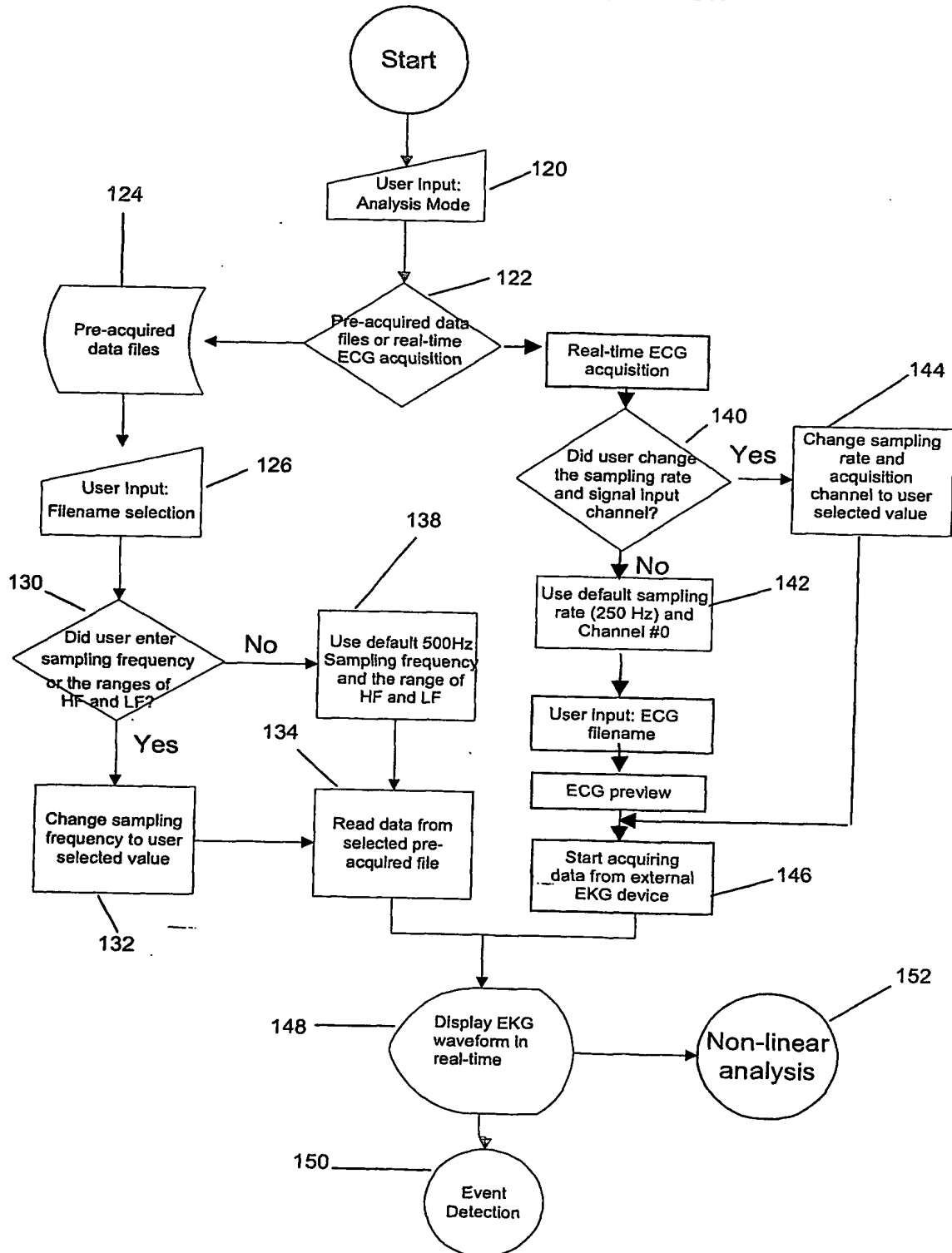


Fig 6: QRS EVENT DETECTION

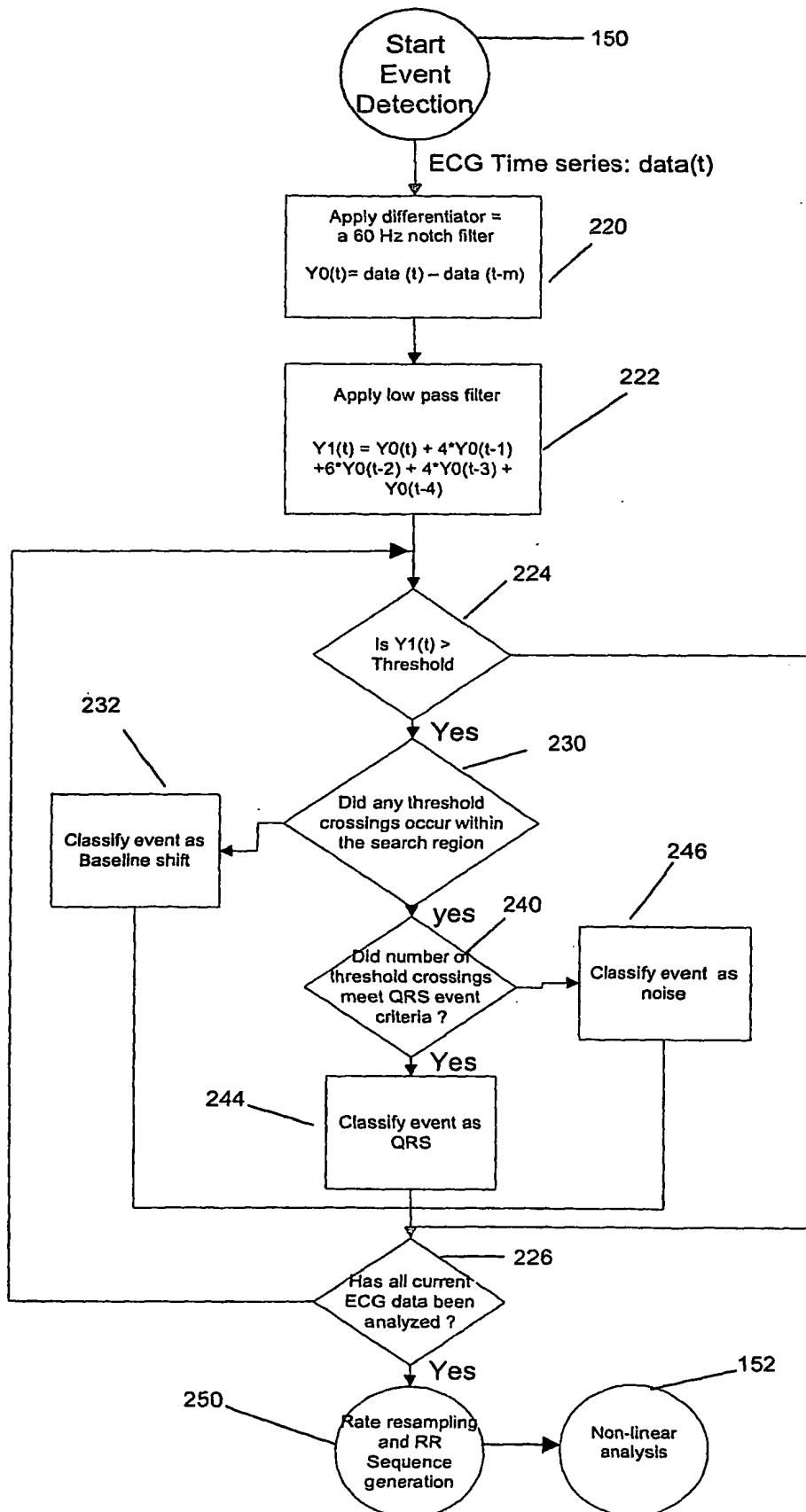


Fig 7: HEART RATE RESAMPLING AND SEQUENCE GENERATION ALGORITHM

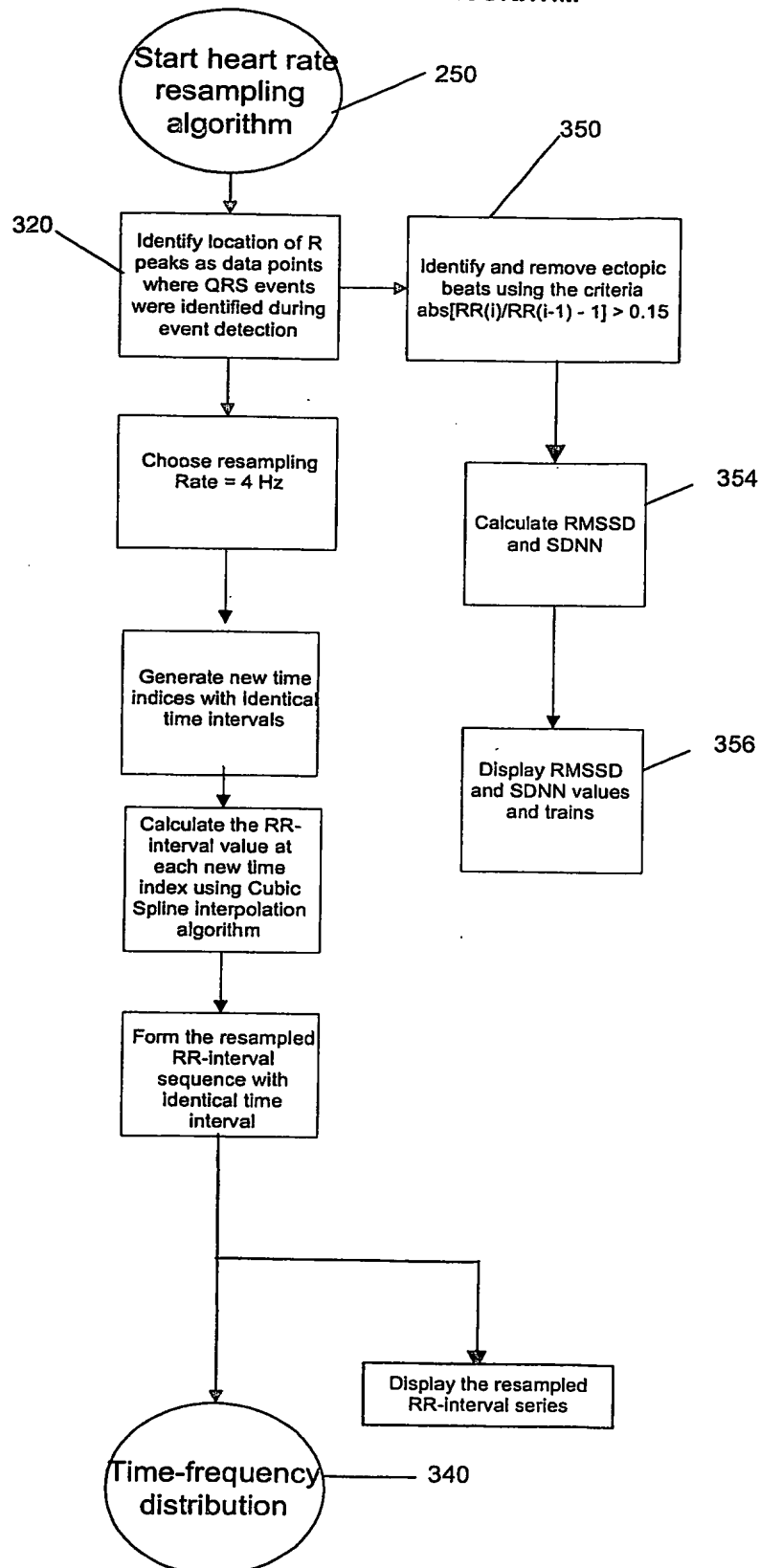


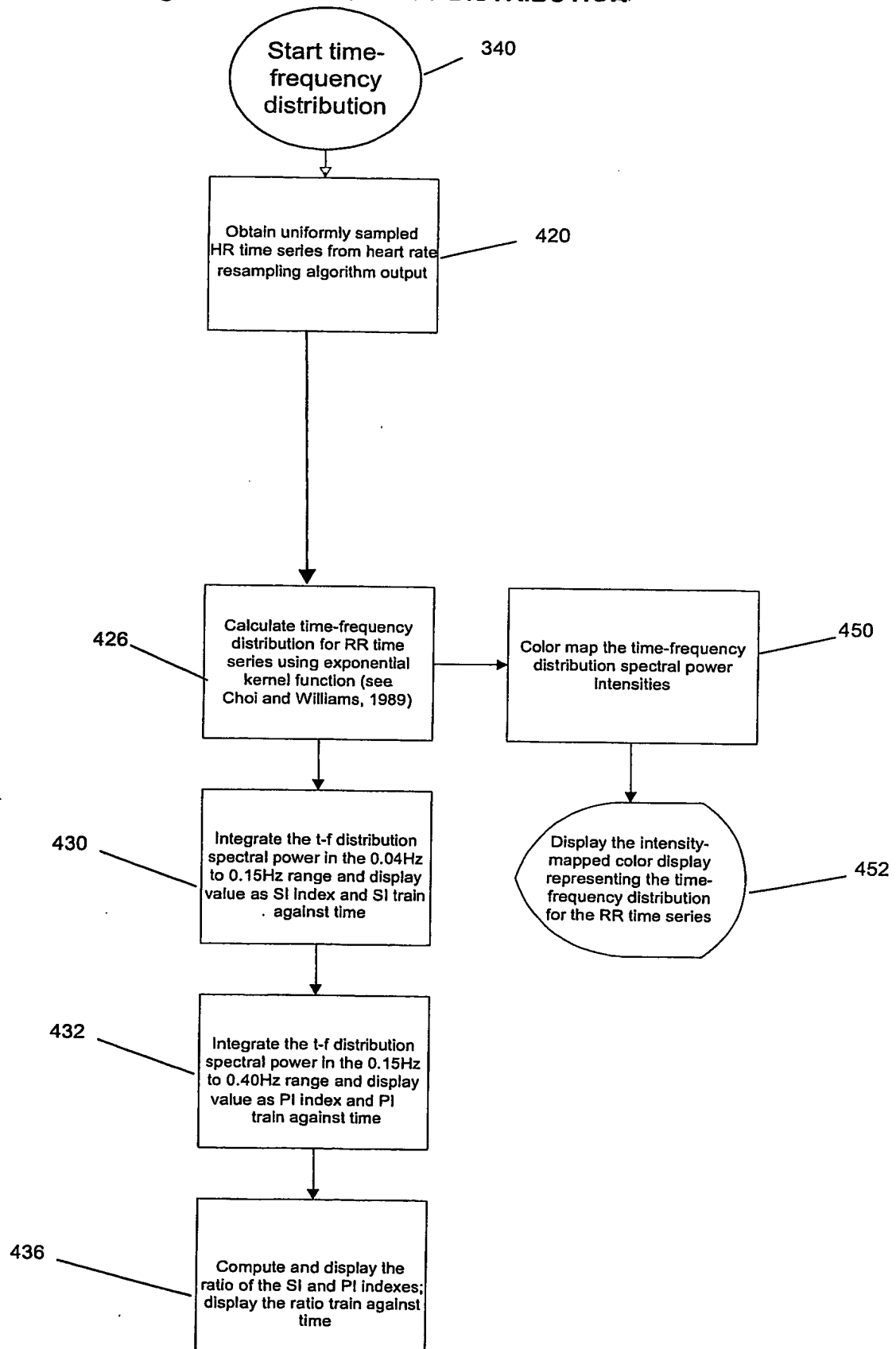
Fig 8: TIME-FREQUENCY DISTRIBUTION

Fig 9 NON-LINEAR ANALYSIS

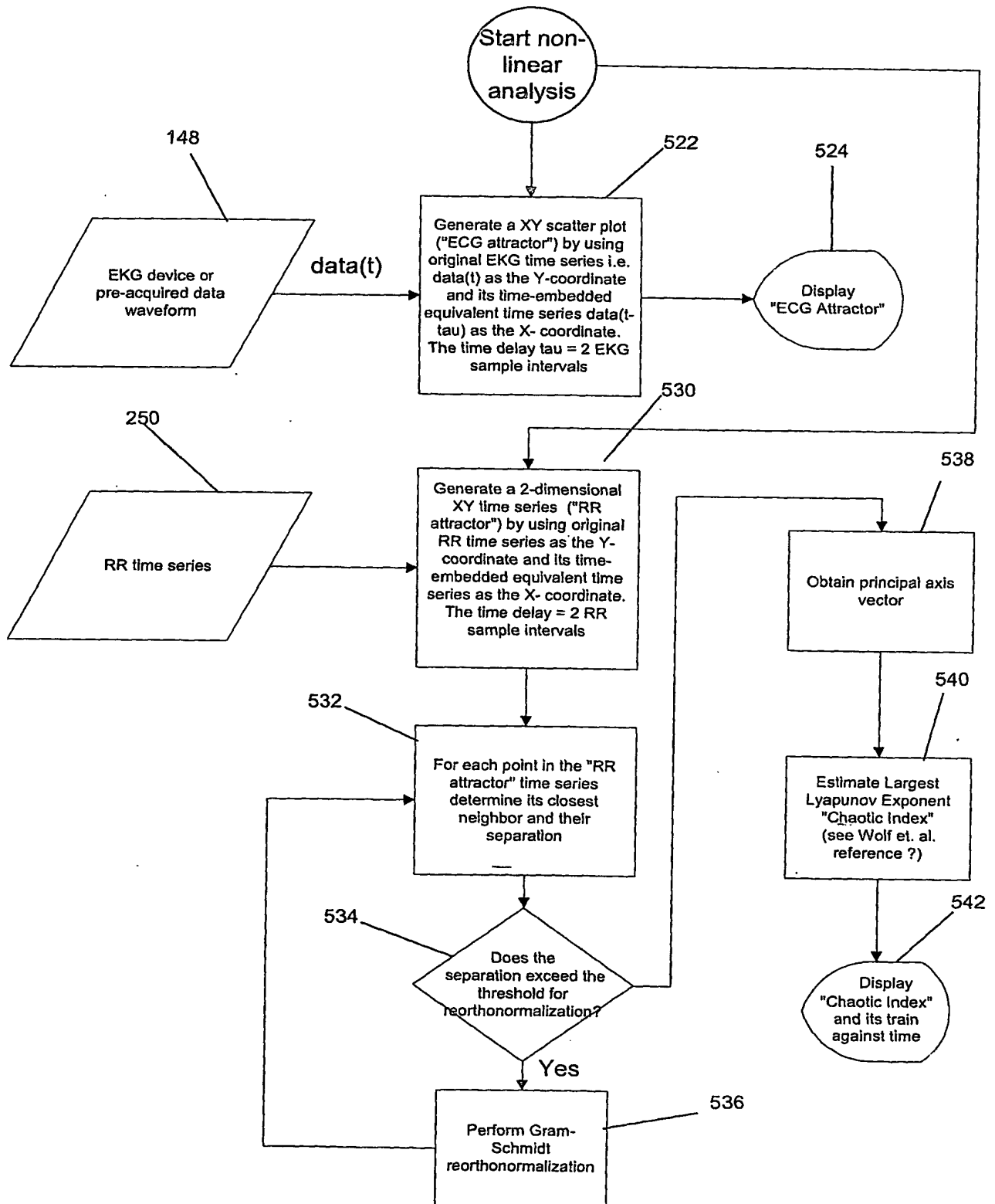
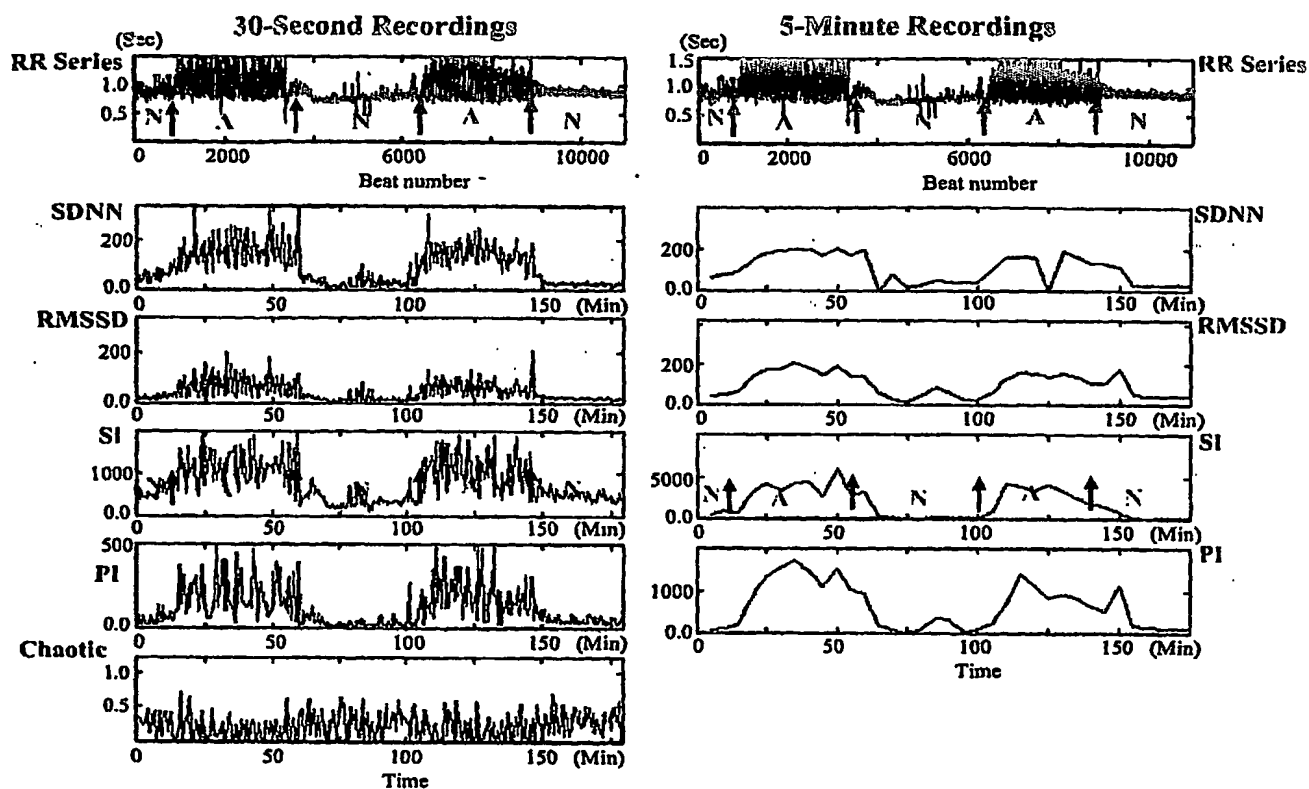


Figure 10: An example of the results analyzed from the system performing HRV analysis on pre-acquired representative data for an electrocardiogram of a human subject with sleep apnea. N denotes normal breathing, A denotes apnea.



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Figure 11: An example of the results analyzed from the system performing HRV analysis on pre-acquired representative data of an epileptic seizure episode electrocardiogram. SZ denotes time seizure occurs.

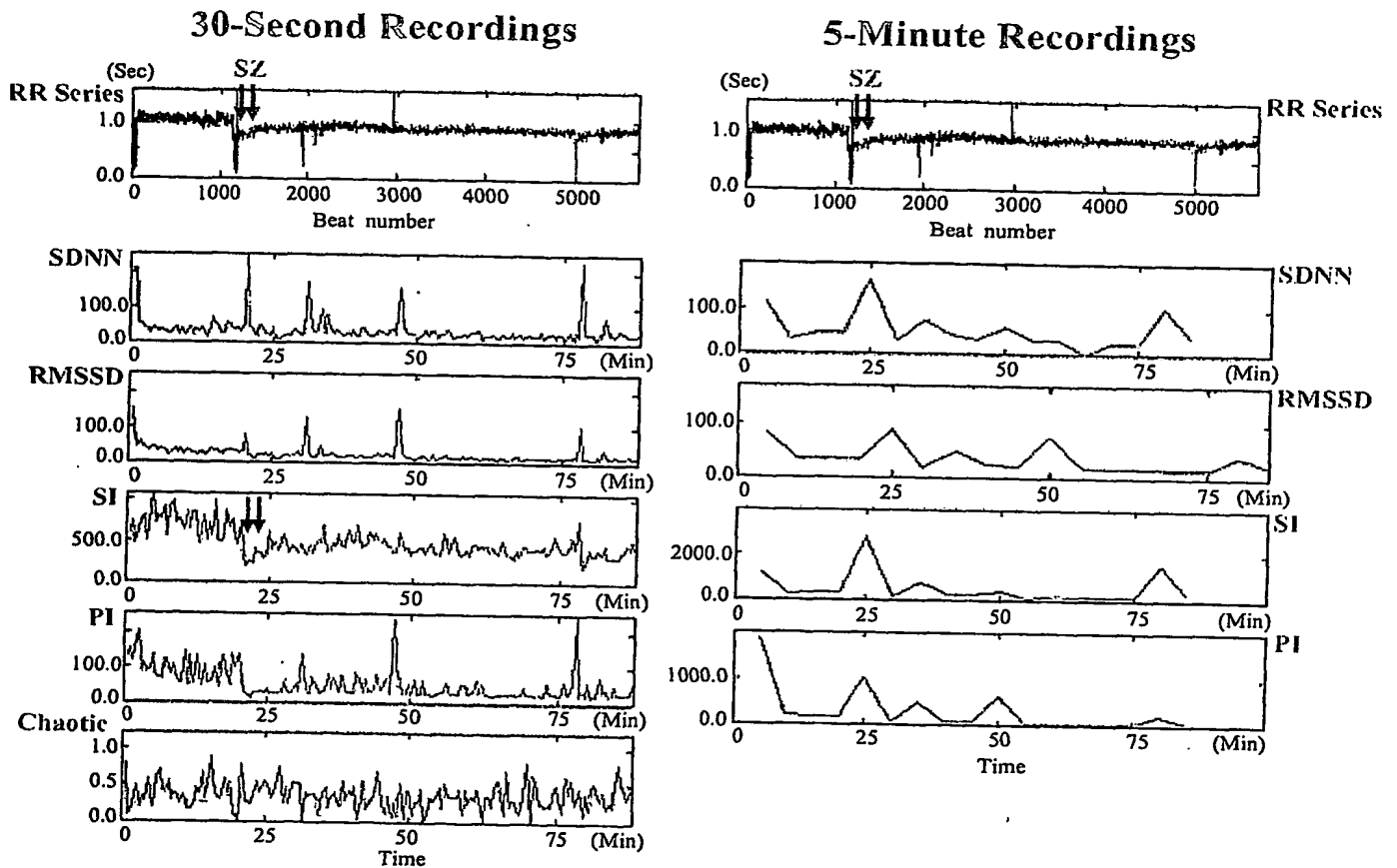


Figure 12: An example of the results analyzed from the system performing HRV analysis on pre-acquired representative data for an electrocardiogram of a sedated baboon.

